

Inventors: NI et al.
Appl. No.: 09/448,868
Filed: November 24, 1999

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50 30 10 TTCGGGCACGAGGCAGGATGGCGCCACCACCAGCTAGAGTACATCTAGGTGCGTTCCTG PPPARVHLGAFL Α 90 110 70 GCAGTGACTCCGAATCCCGGGAGCGCAGCGAGTGGGACAGAGGCAGCCGCGGCCACACCC <u>AVTPNPGSA</u>ASGTEAAAATP 170 150 130 AGCAAAGTGTGGGGCTCTTCCGCGGGGAGGATTGAACCACGAGGCGGGGGCCGAGGAGCG K V W G S S A G R I E P R G G G R G A 230 210 190 CTCCCTACCTCCATGGGACAGGACCCAGTGCCCGGGCCCGGGCAGGGCGCCCCA L P T S M G Q H G P S A R A R A G R A P 290 270 250 GGACCCAGGCCGGGGAAGCCAGCCCTCGGCTCCGGGTCCACAAGACCTTCAAGTTT G P R P A R E A S P R L R V H K T F K F 350 330 310 GTCGTCGTCGGGGTCCTGCAGGTCGTACCTAGCTCAGCTGCAACCATCAAACTTCAT V V V G V L L Q V V P S S A A T I K L H 410 390 370 GATCAATCAATTGGCACACAGCAATGGGAACATAGCCCTTTGGGAGAGTTGTCCCACCA DOSIGTOQWEHSPLGELCPP 470 450 430 GGATCTCATAGATCAGAACGTCCTGGAGCCTGTAACCGGTGCACAGAGGGTGTGGGTTAC G S H R S E R P G A C N R C T E G V G Y 530 510 490 ACCAATGCTTCCAACAATTTGTTTGCTTGCCTCCCATGTACAGCTTGTAAATCAGATGAA TNASNNLFACLPCTACKSDE 570 590 550 GAAGAGAGAAGTCCCTGCACCACGACCAGGAACACAGCATGTCAGTGCAAACCAGGAACT RSPCTTRNTACQCKPGT 610 630 650 TTCCGGAATGACAATTCTGCTGAGATGTGCCGGAAGTGCAGCACAGGGTGCCCCAGAGGG F R N D N S A E M C R K C S T G C P R G 710 690 670 ATGGTCAAGGTCAAGGATTGTACGCCCTGGAGTGACATCGAGTGTGTCCACAAAGAATCA MVKVKDCTPWSDIECVHKES

FIG.1A

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770 750 730 I L V V Т V Ι W ****** 830 810 790 GTGGCTGTGCTGTTGTTGCATCGGCTCAGGTTGTGGAGGGGACCCCAAGTGC I G S G C V C C C AVLI *************************************** 890 870 850 ATGGACAGGGTGTGTTTCTGGCGCTTGGGTCTCCTACGAGGGCCTGGGGCTGAGGACAAT M D R V C F W R L G L L R G P G A E D N 950 930 910 GCTCACAACGAGATTCTGAGCAACGCAGACTCGCTGTCCACTTTCGTCTCTGAGCAGCAA AHNEILSNADSLSTFVSEQQ 1010 990 970 ATGGAAAGCCAGGAGCCGGCAGATTTGACAGGTGTCACTGTACAGTCCCCAGGGGAGGCA M E S Q E P A E L T G V T V Q S P G E A 1070 1050 1030 CAGTGTCTGCTGGGACCGGCAGAAGCTGAAGGGTCTCAGAGGAGGAGGAGGCTGCTGGTTCCA A E A E G S Q R R R L L V P G P 1130 1110 1090 GCAAATGGTGCTGACCCCACTGAGACTCTGATGCTGTTCTTTGACAAGTTTGCAAACATC ANGADPTETLMLFFDKFANI 1190 1170 1150 GTGCCCTTTGACTCCTGGGACCAGCTCATGAGGCAGCTGGACCTCACGAAAAATGAGATC V P F D S W D Q L M R Q L D L T K N E I 1230 1250 1210 GATGTGGTCAGAGCTGGTACAGCAGGCCCAGGGGATGCCTTGTATGCAATGCTGATGAAA D V V R A G T A G P G D A L Y A M L M K 1270 **1290** . 1310 TGGGTCAACAAACTGGACGGAACGCCTCGATCCACACCCTGCTGGATGCCTTGGAGAGG W V N K T G R N A S I H T L L D A L E R 1350 1370 1330 ATGGAAGAGACATGCAAAAGAGAAGATTCAGGACCTCTTGGTGGACTCTGGAAAGTTC MEERHAKEKIQDLLVDSGKF

FIG.1B

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1390	1410	1430				
ATCTACTTAGAAGATGGCACAGGCTCTGCCGTGTCCTTGGAGTGAAAGACTCTTTTTACC						
T Y I E D G T	G S A V S L E					
1450	1470	1490				
	TAGGAGTTAATACATATTAG	GGTTTTTTTTTTAACAT				
1510	1530	1550				
	GCCACGTGTATTGGCTCCT	GCCTGTAATCCCATCACTTTG				
1570	1590	1610				
GGAGGCTGACGCCGGTGGAT	CCACTTGAGGTCCGAAGTT	CCAAGACCAGCCCTGAACCAA				
1630	1650	1670				
CATCGTGGAAATGCCCGTCT	TTTACAAAAAAATACCAAA	AATTCAACTGGAATGTGCATG				
1690	1710	1730				
GTGTGTGCCATCATTTCCTC	GGCTAACTACGGGAGGTCT(GAGGCCAGGAGAATCCACTTG				
1750	1770	1790				
AACCCCACGAAGGACAGTGTAGACTGCAGATTGCACCACTGCACTCCCAGCCTGGGAACA						
1810	1830	1850				
CAGAGCAAGACTCTGTCTCAAGATAAAATAAAATTAAACTTGAAAGAATTATTGCCCGACT						
1870	1890	1910				
GAGGCTCACATGCCAAAGGAAAATCTGGTTCTCCCCTGAGCTGGCCTCCGTGTGTTTCCT						
1930	1950	1970				
TATCATGGTGGTCAATTGGAGGTGTTAATTTGAATGGATTAAGGAACACCTAGAACACTG						
1990	2010	2030				
GTAAGGCATTATTTCTGGGACATTATTTCTGGGCATGTCTTCGAGGGTGTTTCCAGAGGG						
2050	2070	2090				
GATTGGCATGCGATCGGGTGGACTGAGTGGAAAAGACCTACCCTTAATTTGGGGGGGCAC						
2110	2130	2150				
CGTCCGACAGACTGGGGAGCAAGATAGAAGAAAAAAAAAA						

FIG.1C

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h Fas protein h TNFR I Protein h TNFR I Protein h TNFR I Protein TNFR I Protein h Fas protein Fas protein Fas protein DR3 protein DR4 protein protein protein protein DR3 protein protein DR3 protein protein $\sigma =$ · |- $\pm \circ \circ \circ$ 2000 ·S > ° ° ° G \triangleleft ∝ G \searrow ۵. \Box \Box \Box ⋖ × SWD ⋖ J & > G ノエ> > & S V S V S \triangleleft $\angle \bigcirc \bigcirc$ G K S O H D A D 0 ပ ဗ . 5 $\exists \forall \exists$ ロン> α - S A 0×1 0 0 5 K Q d Ω Ω Ω O 5 M A SAEG ВШA \triangleleft 7 34 27 41

H - - - - - L S C Q E K Q N H R - H T R L C S R R D T E F S P C T T T R N

 \Box \sim \Box

137

- X V

h Fas protein h TNFR I Protein

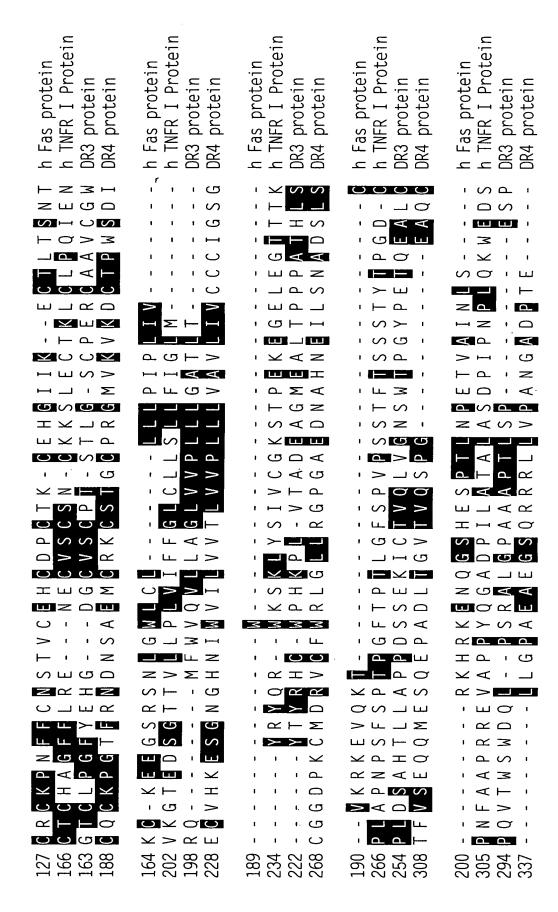
protein

DR3 protein

 $\forall > 0 \land$

FIG.2A

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h Fas protein h TNFR I Protein TNFR I Protein h Fas protein h TNFR I Protein h Fas protein DR3 protein DR4 protein protein DR3 protein DR3 protein DR4 protein X K K O $> \simeq$ ш S 0 0 Z α - 0 5 $\mathbf{\Sigma}$ $\mathbf{\Sigma}$ E K K > 258 384 360 393 297 424 396 431

FIG.2C

Atty. Docket No.: 1488.1300004 ALPHA, AMPHIPATHIC REGIONS-EISENBERG BETA, AMPHIPATHIC REGIONS-EISENBERG ■ HYDROPHILICITY PLOT-KYTE-DOOLITTLE FLEXIBLE REGIONS-KARPLUS-SCHULZ ALPHA, REGIONS-GARNIER-ROBSON ☐ SURFACE PROBABILITY PLOT-EMINI IURN, REGIONS-GARNIER-ROBSON Beta, regions-garnier-robson ■ ANTIGENIC INDEX-JAMESON-WOLF REGIONS-GARNIER-ROBSON ALPHA, REGIONS-CHOU-FASMAN TURN, REGIONS-CHOU-FASMAN BETA, REGIONS-CHOU-FASMAN 450 9 350 8 300 250 250 150 ₹ 2 8 2 2 2 <u>ر</u> യ യ

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HTOIY07R

1	GGCANAGGTN	CGTACCTAGC	TCACCTGCAA	CCATCAAACT	TNATGATCAA
	TCAATTGGCA	CACAGCAATG	GGAAACATAG	CCCTTTGGAA	GANTTGTNTC
101	CACCAGGATC	TCATAGATCA	AAACATCCTG	GGAGCCTGTT	AACCGGTGCC
151	CCAAAGGNTG	GTCAAGGTCA	AGGAATTGTT	NCGCCCTGGA	AGTGAACATC
	GAGTGTNTCC				
	TTTTGGTTGT				
301	TTGTTTGTTG	TTGCATCGGC	TTCAGGTTNT	GGAGGGGGAC	CCAAGTGCAT
351		TGTTTCTGGG			
401	GCANGTTCAC	AAGGGTTTTA	GCAANG		

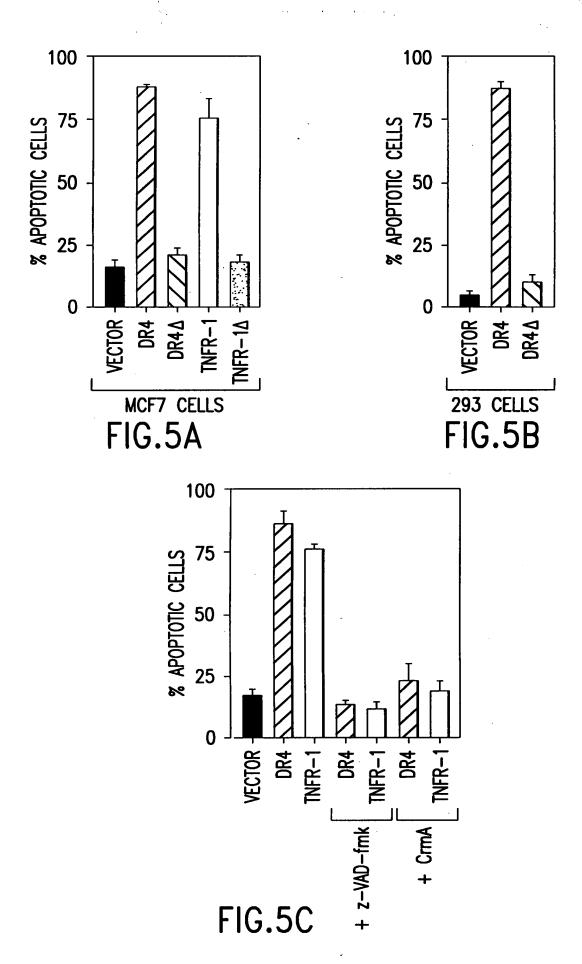
HTXEY80R

1	TGGGGCTGAG	GACAATGCTG	ACNACGAGAT	TCTGAGCAAC	GCAGNACTNG
	CTGTCCACTT				
101	TTTGACAGGT	GTCACTGTAC	AGTCCCCAGG	GGAGGCACAG	TGTCTGCTGG
	TGAGTTGGGG				
	CATGNCTCGG				
251	GGACTTNAGG	GGGACGGNGC	TGCGTGGGGA	AAAAGCAGCC	ACCNTTTGAC
301	AAGGGGGACA	GGCATTTTTN	CAAATGTGTG	CTTNTTGGT	

FIG.4

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